

Field Dry Density Test

Contract Number SR Number	Date	
Section Inspector		
* Test Hole Number		
Section to Section		
* Test Station		
* Reference to Center Line		
* Reference to Subgrade		
* Material (Clay, Top Course, etc.)		
Depth of Material (If surfacing)		
Wet Density Determination		
Wet Density lbs/cu ft 0		
90		
Average Wet Density lbs/cu ft Average		
Moisture Determination		
Mass of Tare		
Mass Damp Soil + Tare		
Mass Dry Soil + Tare		
Mass of Moisture		
Mass Dry Soil		
* % Moisture (Field Dry) = Mass of Moisture (100) Mass of Dry Soil		
Gradation Determination	-	
Mass of Sample		
Mass Retained on No. 4 Sieve + Tare		
Mass of Tare		
Mass of Material Retained on No. 4 Sieve Mass - Tare		
% Retained on No. 4 Sieve (% Oversize) = Mass Retained (100) Mass of Sample		
% Passing No. 4 Sieve = (100 - % Retained)		
Dry Density Determination (Field Test)	_	
* Dry Density lbs/cu ft = Average Guage Reading 1 + (% Moisture / 100)		
Specification Density Determination		
* Maximum Density from appropriate curve lbs/cu ft		
* Standard		
* Corrected Maximum Density for Nomograph lbs/cu ft (for non-granular material)		
* Density lbs/cu ft (% of maximum) = $\frac{\text{Dry Density X 100}}{\text{Maximum Density}}$		
Optimum Moisture Determination		
* Optimum Moisture (from curve)		
* Opt. Moisture Corrected (non-granular mat. only) = Opt. Moisture X % Passing No. 4 /100		

Note: If retest, add letter to number such as 1st test No. 27, retest 27A

* Information is to be transferred to DOT Form 351-015, "Daily Compaction Test Report"